

2012 Emerald Coast Regional Envirothon

These are example test questions. Questions for the actual 2012 ECRE test in each test category may have a similar level of difficulty, or may be more or less difficult. Some of these test questions are from a previous national Envirothon event and may not reflect information included in the 2012 ECRE study materials. Such questions are only to indicate the kind of questions that may be anticipated. All test questions for the 2012 ECRE will be from the study materials provided for the ECRE.

Test questions at all stations may include multiple choice, fill in the blank, short answer, and/or matching.

IMPORTANT NOTE: At the Current Issue test station only, teams will be given a written test and an oral test. The written test will resemble the other example test questions below. For the oral test, each team will be given the same short scenario description and questions to be answered. The team will then be allowed three minutes to formulate their answers and then two minutes to provide their response orally to the proctor. They will be graded on how they address certain objectives and on participation by all team members in presenting their answers. Each team will be called to take a turn with the oral test proctor at different times during the Current Issue test time period.

Example test questions

Aquatic Ecology

1. Which of the following fish is able to survive in habitats with low levels of dissolved oxygen due to its ability to breathe atmospheric oxygen?
 - a. Sturgeon
 - b. Largemouth bass
 - c. Perch
 - d. Bowfin

2. When evaluating aquatic environmental quality using benthos, ecologists consider each of the following characteristics to be important indicators of stream, river, or lake quality except:
 - a. Taxa richness
 - b. Life span
 - c. Pollution tolerance
 - d. Functional groups
 - e. All of the above

3. Identify the wetland plant indicated by the stake at the edge of the pond by common name.

4. Which of the following is the scientific name for the plant indicated in question 3?
 - a. *Sagittaria lancifolia*
 - b. *Quercus virginicus*
 - c. *Cyperus odoratus*
 - d. *Myrica cerifera*
 - e. None of the above

Example test questions

Current Issue – Non-Point Source Pollution/Low Impact Development

1. According to the “Silviculture Best Management Practices” Manual, which of the following are not used in determining the recommended width of a Special Management Zone (SMZ)?
 - a. Slope of the land
 - b. Soil erosion potential
 - c. Cost of the land
 - d. Site Sensitivity Class (SSC)
 - e. C and D
2. Which of the following is not a desirable part of an SMZ?
 - a. Streambank stability
 - b. Snags, den, or cavity trees
 - c. Mast producing trees
 - d. Increase in nutrients
 - e. Beneficial detritus and woody debris
3. Low Impact Development can be applied to which of the following?
 - a. New development
 - b. Urban retrofit development
 - c. Small scale residential development
 - d. Single family lots
 - e. All of the above
4. Grassed swales are used to convey runoff, but unlike standard drainage channels, they are designed to also improve stormwater _____.

Example test questions

Forestry

1. Deciduous trees are dormant during the winter months, after shedding their leaves in the fall. Conifers usually keep their leaves green all year long. Name two conifers that are deciduous.

2. How is the merchantable height of a standing tree determined?

- a. Bole defects only
- b. Aspect
- c. Diameter only
- d. Use of telescope
- e. Bole defects and diameter

3. Identify the three forestry tools displayed using recognized common names.

- a. _____
- b. _____
- c. _____

4. Identify the four trees displayed by scientific or common name.

- a. _____
- b. _____
- c. _____
- d. _____

Example test questions

Soils

1. Which type of water table is a soil condition in which saturated layers are underlain by one or more unsaturated layers?
 - a. Seasonal
 - b. Perched
 - c. Capillary
 - d. Apparent
 - e. Hydrostatic

2. _____ is a measurement of the amount of water that can move downward through a unit area of unsaturated soil in a unit of time.
 - a. Infiltration rate
 - b. Permeability rate
 - c. Hydraulic conductivity
 - d. Saturated hydraulic conductivity
 - e. Percolation rate

3. Based upon the colors in the soil profile displayed, in which horizon is the top of the seasonal high water table located?
 - a. E
 - b. Bt1
 - c. Bt2
 - d. C
 - e. There is no seasonal high water table in this soil profile

4. Using the Munsell Soil Color Chart provided, determine the dominant moist color for the soil in container A.
Hue = _____; Value = _____; Chroma= _____

Example test questions

Wildlife

1. Areas of continuous habitat that allow animals to travel to different habitat areas are called what?

2. Which of the following terms is used to describe animals that are most active during the dawn and dusk hours of the day?
 - a. Nocturnal
 - b. Diurnal
 - c. Crepuscular
 - d. Circadian
 - e. None of the above
3. What kind of diet would the animal represented by the skull displayed be adapted to?
 - a. Carnivorous
 - b. Herbivorous
 - c. Omnivorous
 - d. Piscivorous
 - e. Eclectic
4. Which of the tracks displayed would belong to the animal represented by the skull displayed?
 - a. Track A
 - b. Track B
 - c. Track C
 - d. Track D
 - e. None of the above